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Fresnel lens sheet mfr. - by applying UV or electron beam-setting resin on mould, laminating with photo-penetrable film irradiating etc.

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Number of Countries: 001 Number of Patents: 002

**Patent Family:**

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 63134227	A	19880606	JP 86281236	A	19861126	198828 B
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JP 94092130	B2	19941116	JP 86281236	A	19861126	199444
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Priority Applications (No Type Date): JP 86281236 A 19861126

**Patent Details:**

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 63134227	A		5		
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JP 94092130	B2		5	B29D-011/00	Based on patent JP 63134227
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Abstract (Basic): JP 63134227 A

Process comprises applying UV- or electron beam-settable resin on a mould having Fresnel lens surface form to make resin layer, and laminating photopenetration plastic film on the surface of the resin layer, irradiating UV or electron beam on the plastic film surface to cure the resin layer, and remove cured resin layer and plastic film from the mould, and laminating a transparent substrate on the plastic film. UV irradiation is 500 W- 3 KW for 10-30 seconds. In case of electron beam, 1-50 mega-farad.

ADVANTAGE - Resin layer composition is e.g. epoxy acrylate, etc. Photopenetration plastic film is, e.g. polyester, acrylic, polycarbonate, etc. There is no need for reduced pressure conditions for defoaming, parting is easy and wide selection of substrate materials can be used, e.g. polymethyl methacrylate, polystyrene, polycarbonate, etc.

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